

SELECTIVELY ENGAGED ANTENNA MATCHING FOR A MOBILE TERMINAL

Abstract

Selectively engaged antenna matching for a mobile terminal. Antenna matching can be engaged, disengaged, or switched as needed depending on whether a movable cover or clam-shell portion of a mobile terminal is open or closed. A switch can connect a single matching network to a radiating element in one case, and disconnect the single matching network from the radiating element in the other case. Alternatively, the switch can connect one matching network to the radiating element to achieve one matched condition, and the other matching network to the radiating element to achieve the other matched condition. In other embodiments, a switchable matching arrangement can alter the signal and/or ground feed points of an antenna. The technique can be applied to planar, fixed external, or collapsible antennas.